



## Wet Running Seal Without Bearing (WRS 810 Series)

### WRS 810



Wet Running Seal Without Bearing WRS 810 Series is factory assembled & dynamic tested seal for steel, glass lined & SS mixers, agitators & vessels. These are used with non pressurised barrier fluid preferably clean soft water because of its good heat transfer qualities. Fluids like oil, hydrocarbon, solvents etc. Can also be used as buffer fluid by considering the corrosion resistance of wetted parts and compatibility with main media to be sealed. These seals are supplied with cooling water jacket which ensures cool running of the seal.

**Applications :** Corrosive Chemicals, Hydrocarbons, General & Light Chemicals, Mixers & Agitators.

#### Seal Components :

##### Seal Face :

Carbon / Ceramic

Carbon / Silicon Carbide

Carbon / Tungsten Carbide

**Secondary Seal :** Elastomers, TCV

**Metal Parts :** SS 304, SS 316, Hastelloy-C,  
Hastelloy-B, Monel, Alloy-20

#### Seal Characteristics :

- Single Acting
- Reverse Balanced
- Outside Mounted
- Independent of Direction of Rotation
- Without Bearing

#### Operating Parameters :

Shaft Dia : 25 to 150 mm

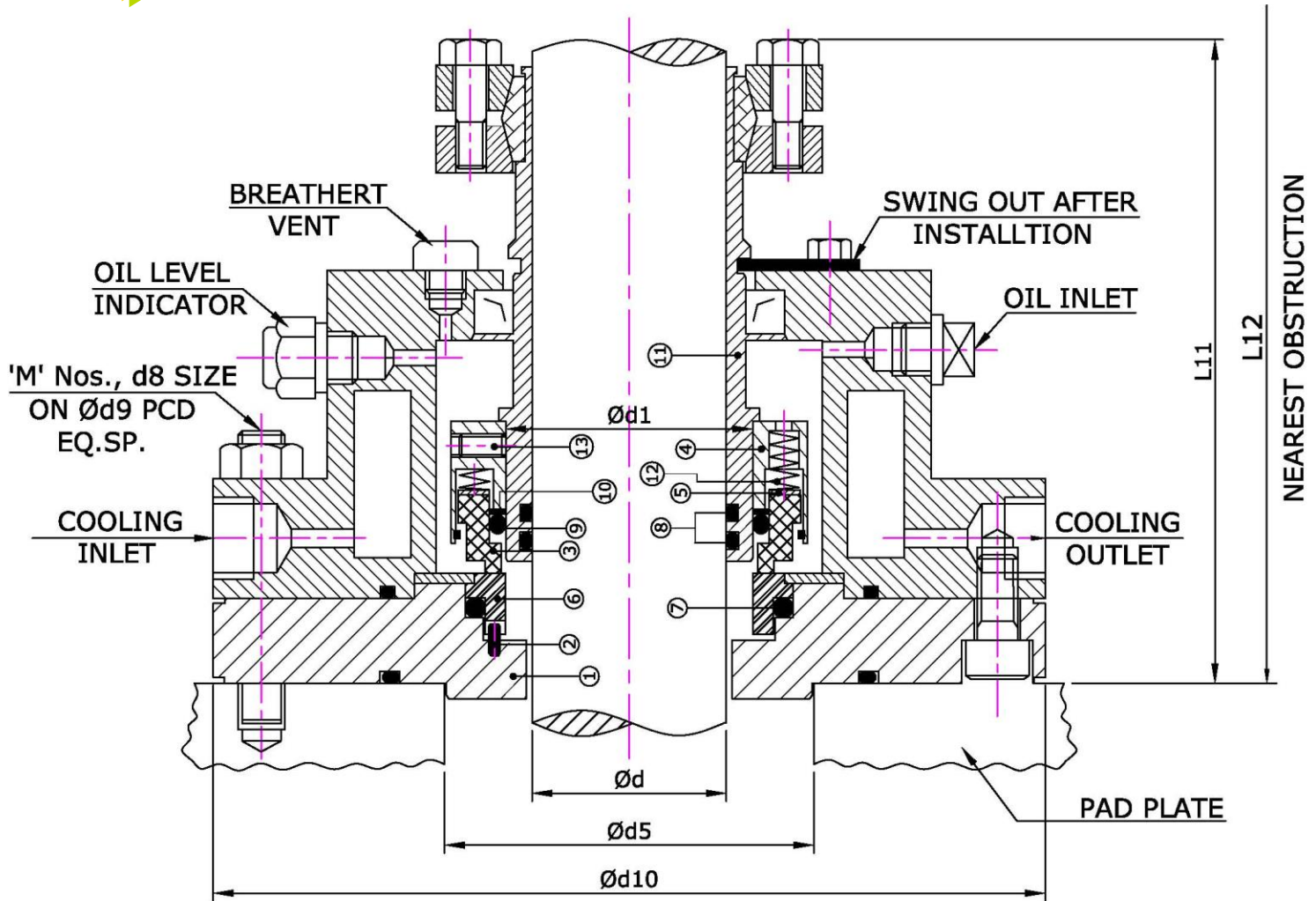
Pressure : Vacuum to 8 Bars (max)

Temperature : Ambient to +180°C

Speed : Up to 320 rpm



## WRS 810



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	GLAND	8	O RING
2	PIN	9	O RING
3	SEAL RING	10	BACK-UP RING
4	RETAINER	11	SLEEVE
5	THRUST RING	12	SPRING
6	MATING RING	13	SET SCREW
7	O RING		



## WRS 810 DIMENSIONS IN MILLIMETER

SHAFT SIZE	SEAL SIZE						
$d$ <sup>g6</sup>	$d1$ <sup>+0.00</sup> <sub>-0.05</sub>	$d5$ <sup>H12</sup>	M,d8	d9	d10	L11	L12
25.0	35.0	45.0	6,M10	130.0	150.0	120.0	170.0
30.0	41.5	50.0	6,M10	135.0	155.0	120.0	170.0
35.0	44.5	55.0	6,M10	140.0	160.0	130.0	180.0
40.0	50.8	60.0	6,M10	145.0	165.0	130.0	180.0
45.0	54.0	65.0	6,M10	150.0	170.0	130.0	180.0
50.0	60.5	70.0	6,M10	155.0	175.0	150.0	200.0
55.0	67.0	80.0	6,M10	165.0	185.0	150.0	200.0
60.0	70.0	90.0	8,M12	175.0	200.0	150.0	200.0
65.0	76.5	95.0	8,M12	180.0	205.0	150.0	200.0
70.0	82.5	100.0	8,M12	185.0	210.0	150.0	200.0
75.0	86.0	105.0	8,M12	190.0	215.0	160.0	210.0
80.0	92.0	110.0	8,M12	195.0	220.0	160.0	210.0
85.0	95.5	115.0	8,M12	200.0	225.0	160.0	210.0
90.0	101.5	125.0	8,M12	205.0	230.0	160.0	210.0
95.0	105.0	130.0	8,M12	210.0	235.0	160.0	210.0
100.0	111.0	140.0	8,M12	220.0	245.0	160.0	210.0
105.0	114.3	150.0	8,M12	225.0	250.0	170.0	220.0
110.0	120.5	160.0	8,M12	230.0	255.0	170.0	220.0
115.0	127.0	165.0	8,M12	235.0	260.0	170.0	220.0
120.0	130.2	170.0	8,M12	240.0	265.0	170.0	220.0
125.0	136.5	175.0	8,M12	245.0	270.0	170.0	220.0
130.0	139.7	180.0	8,M12	250.0	275.0	170.0	220.0
135.0	146.0	185.0	8,M12	260.0	285.0	170.0	220.0
140.0	152.5	190.0	8,M12	265.0	290.0	180.0	230.0
145.0	155.5	195.0	8,M12	270.0	295.0	180.0	230.0
150.0	162.0	200.0	8,M12	275.0	300.0	180.0	230.0